

Application of the Lake Okeechobee Regulation Schedule (LORS2008) on 08/07/2023 (ENSO Condition: El Niño)

Lake Okeechobee Net Inflow Outlook:

The Lake Okeechobee Net Inflow Outlook has been computed using methods described in the LORS2008 Water Control Plan: Croley's method, the SFWMD empirical method, a sub-sampling of El Niño years and a sub-sampling of warm years of the Atlantic Multi-decadal Oscillation (AMO) in combination with El Niño ENSO years. The results for Croley's method and the SFWMD empirical method are based on the CPC Outlook.

Table of the Lake Okeechobee Net Inflow Outlooks in feet of equivalent depth. All methods are updated on a weekly basis with observed net inflow for the current month.

Season	Croley's Method*		SFWMD Empirical Method		Sub-sampling of El Niño ENSO Years**		Sub-sampling of AMO Warm + El Niño ENSO Years***	
	Value (ft)	<u>Condition</u>	Value (ft)	<u>Condition</u>	Value (ft)	<u>Condition</u>	Value (ft)	<u>Condition</u>
Current (Aug-Jan)	N/A	N/A	2.36	Very Wet	2.63	Very Wet	3.78	Very Wet
Multi Seasonal (Aug-Apr)	N/A	N/A	2.60	Wet	3.27	Wet	4.54	Very Wet

*Croley's Method Not Produced for This Report

See Seasonal and Multi-Seasonal tables for the classification of Lake Okeechobee Outlooks.

The recommended methods and values for estimating the Lake Okeechobee Net Inflow Outlook are shaded and should be used in the LORS2008 Release Guidance Flow Charts.

**Sub-sampling is a weighted average of ENSO conditions based on the IRI ENSO forecast published.

***Sub-sampling based on combination of ENSO and AMO conditions. For this predominant ENSO categorization is used instead of weights.

Tributary Hydrologic Conditions:

5167 cfs 14-day running average for Lake Okeechobee Net Inflow through 08/06/2023. According to the classification in Tributary Hydrologic Conditions table, this condition is Wet.

-1.50 for Palmer Drought Index on 08/05/2023.

According to the classification in Tributary Hydrologic Conditions table, this condition is Dry.

The wetter of the two conditions above is **Wet**.

LORS2008 Classification Tables:

Lake Okeechobee Stage on 08/07/2023:

Lake Okeechobee Stage: **15.30 feet**

Lake Okeechobee Management Zone/Band		Bottom Elevation (feet, NGVD)	Current Lake Stage
High Lake Management Band		16.31	
Operational Band	High sub-band	15.89	
	Intermediate sub-band	15.47	
	Low sub-band	13.63	← 15.30 ft
Base Flow sub-band		12.60	
Beneficial Use sub-band		11.86	
Water Shortage Management Band			

Part C of LORS2008: Discharge to WCAs

Up to Maximum Practicable to the WCAs if desirable or with minimum Everglades impact; otherwise no releases to WCAs.

Part D of LORS2008: Discharge to Tide

Up to 3000 cfs at S-79 and up to 1170 cfs at S-80.

LORS2008 Implementation on 08/07/2023 (ENSO Condition- El Niño):

Status for week ending 08/07/2023:

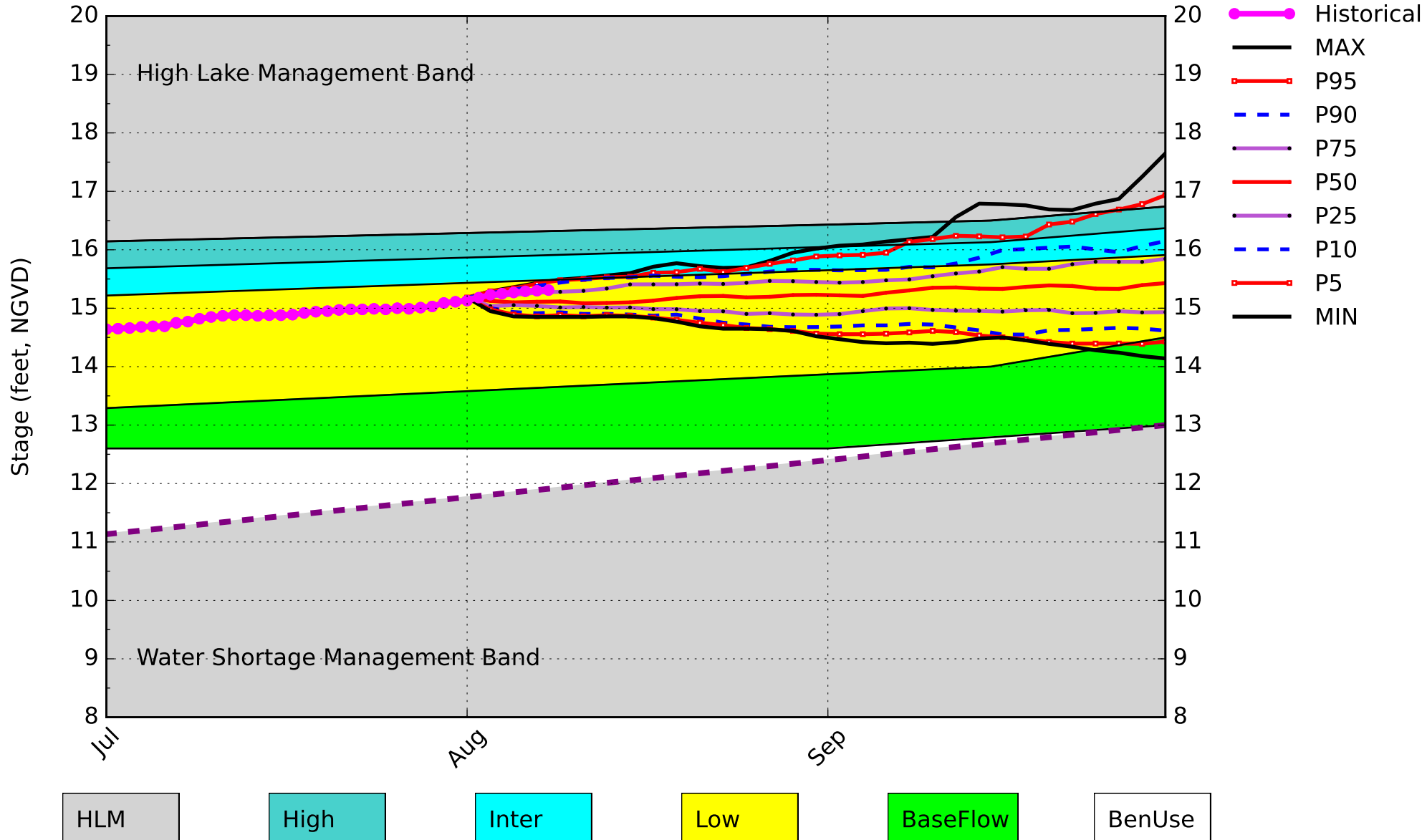
Water Supply Risk Evaluation

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Low Sub-band	L
	Palmer Drought Index for LOK Tributary Conditions	-1.50 (Dry)	M
	CPC Precipitation Outlook	1 month: Equal Chances	L
		3 months: Equal Chances	L
	LOK Seasonal Net Inflow Outlook	2.63 ft	L
	ENSO Forecast	Normal to Extremely Wet	
	LOK Multi-Seasonal Net Inflow Outlook	3.27 ft	L
	ENSO Forecast	Wet	
WCAs	WCA 1: Site 1-8C	Above Line 1 (16.62 ft)	L
	WCA 2A: Site 2-17	Above Line 1 (12.84 ft)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (10.74 ft)	L
LEC	Service Area 1	Year-Round Irrigation Rule in effect	L
	Service Area 2	Year-Round Irrigation Rule in effect	L
	Service Area 3	Year-Round Irrigation Rule in effect	L

Note: The water supply risk classification based on the Palmer index, as well as the LOK seasonal and multi-seasonal net inflow outlooks use slightly different classification intervals than those used by the 2008-LORS.

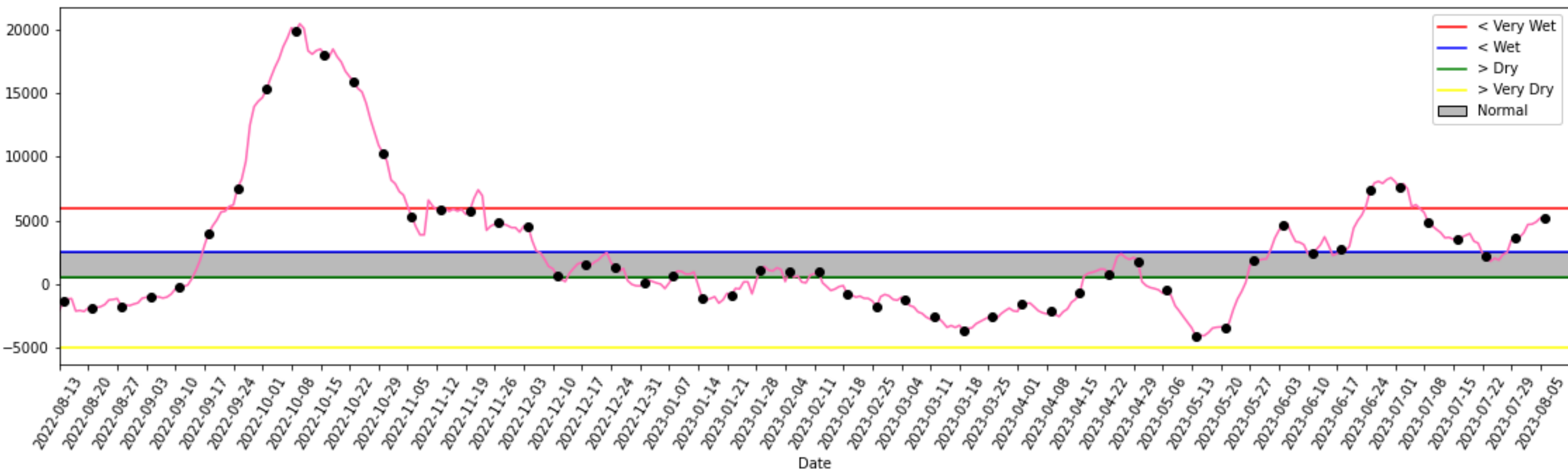
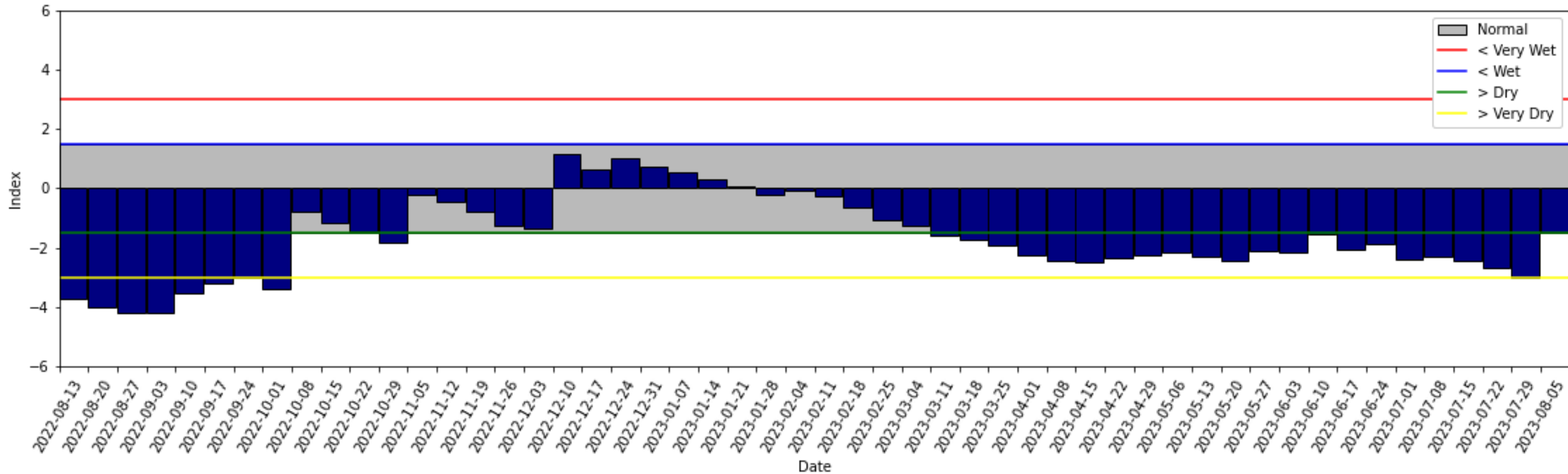
Lake Okeechobee SFWMM August 2023 Position Analysis

Percentiles PA



(See assumptions on the Position Analysis Results website)

Tributary Basin Condition Indicators as of August 06 2023



2008 LORS

Part C: Establish Allowable Lake Okeechobee Releases to the Water Conservation Areas

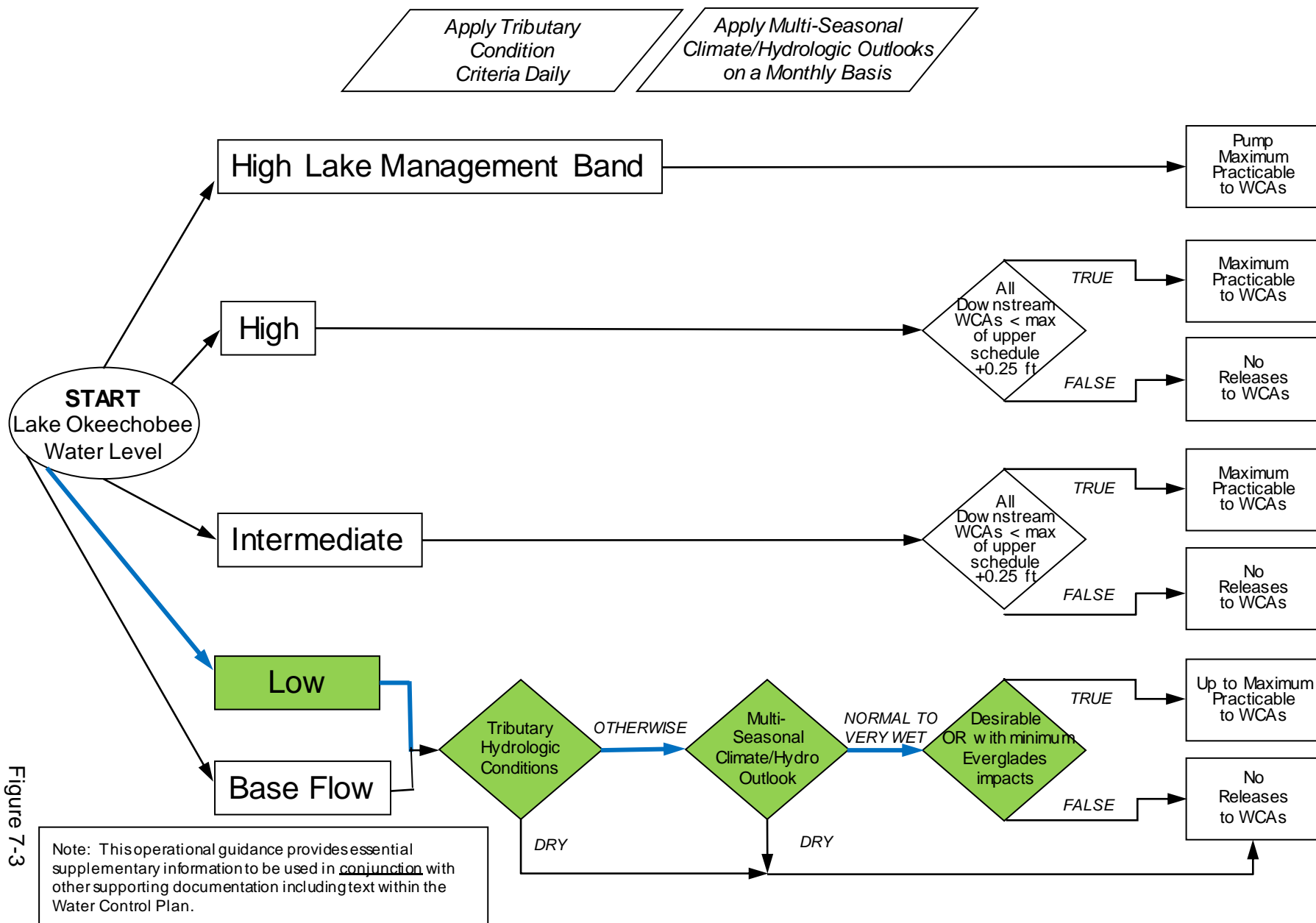
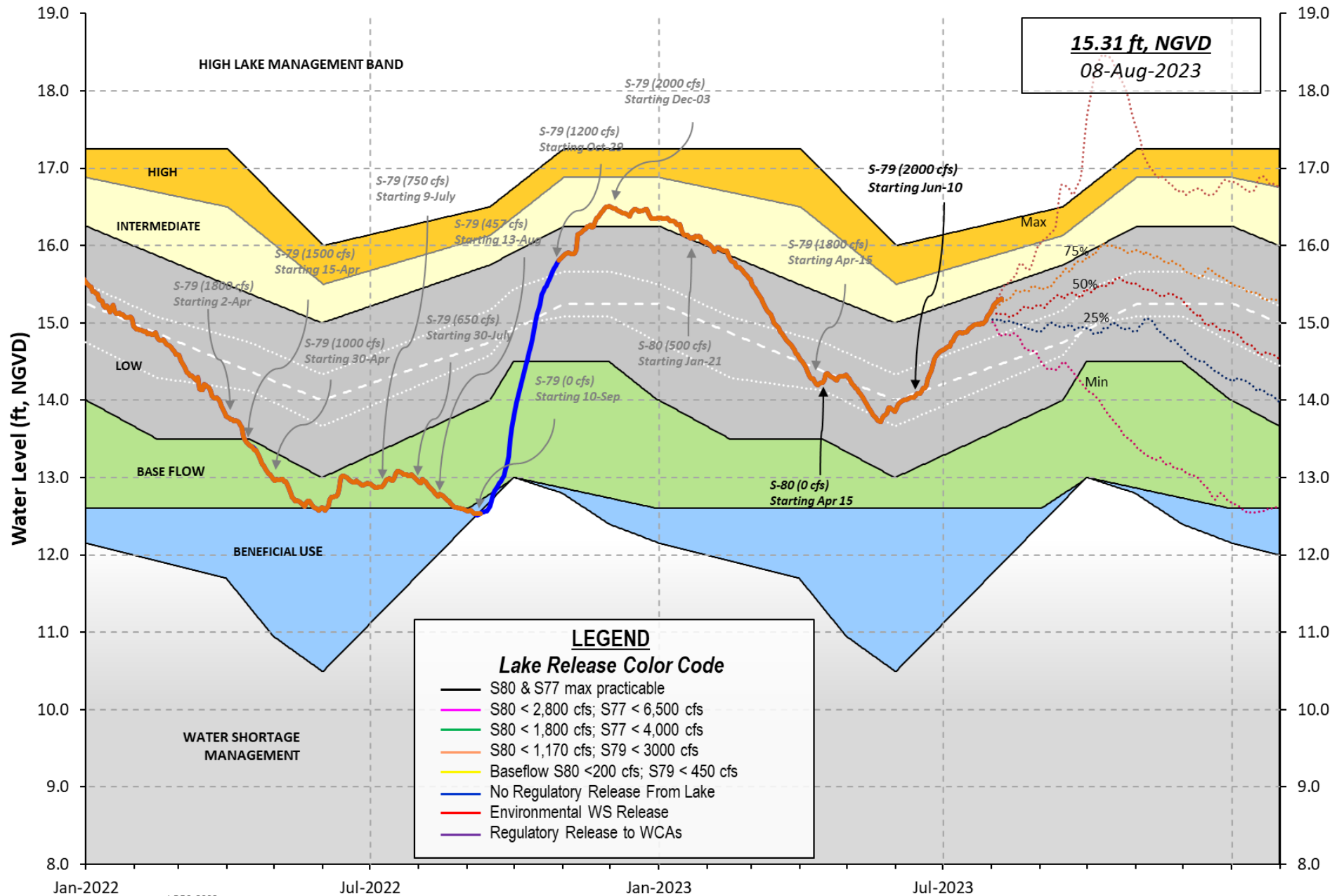


Figure 7-3

Lake Okeechobee Water Level History and Projected Stages



is equal to -NR-
 Lake Okeechobee (Change in Storage) Flow is 2168 cfs or 4300 AC-FT

	Headwater Elevation (ft-msl)	Tailwater Elevation (ft-msl)	Disch (cfs)	----- Gate Positions -----							
				#1 (ft)	#2 (ft)	#3 (ft)	#4 (ft)	#5 (ft)	#6 (ft)	#7 (ft)	#8 (ft)
(I) see note at bottom											
North East Shore											
S133 Pumps:	13.30	15.33	74	0	0	61	0	12	(cfs)		
S193:											
S191:	18.52	15.33	179	0.5	0.0	0.5					
S135 Pumps:	13.37	15.20	0	0	0	0	0		(cfs)		
S135 Culverts:			0	0.0	0.0						
North West Shore											
S65E:	20.83	15.16	2086	1.4	0.9	0.7	0.7	0.7	1.1		
S65EX1:	20.83	15.16	0								
S127 Pumps:	13.45	15.25	93	0	62	0	40	0	(cfs)		
S127 Culvert:			0	0.0							
S129 Pumps:	12.80	15.25	19	0	18	0			(cfs)		
S129 Culvert:			0	0.0							
S131 Pumps:	12.87	-NR-	32	-NR-	0				(cfs)		
S131 Culvert:			0								
Fisheating Creek											
nr Palmdale		32.39	455								
nr Lakeport											
C5:		-NR-	0	-NR-	-NR-	-NR-					
South Shore											
S4 Pumps:	11.42	-NR-	0	0	0	0			(cfs)		
S169:	15.28	-NR-	-NR-	-NR-	-NR-	-NR-					
S310:	15.23		-29								
S3 Pumps:	10.06	15.25	0	0	0	0			(cfs)		
S354:	15.25	10.06	0	0.0	0.0						
S2 Pumps:	10.44	15.25	0	0	0	0	0		(cfs)		
S351:	15.25	10.44	0	0.0	0.0	0.0					
S352:	15.41	10.35	0	0.0	0.0						
C10A:	-NR-	-NR-		-NR-	-NR-	-NR-	-NR-	-NR-			
L8 Canal PT		14.65	-3								

S351 and S352 Temporary Pumps/S354 Spillway

S351:	10.44	15.25	0	-NR-	-NR-	-NR-	-NR-	-NR-	-NR-		
S352:	10.35	15.41	0	-NR-	-NR-	-NR-	-NR-				
S354:	10.06	15.25	0	-NR-	-NR-	-NR-	-NR-				

Caloosahatchee River (S77, S78, S79)

S47B:	13.48	13.30		1.5	1.5						
S47D:	12.30	11.35	2	0.0							
S77:											
Spillway and Sector Preferred Flow:	15.22	11.19	0	0.0	0.0	0.0	0.0				
Flow Due to Lockages+:				3							

S78:

Spillway and Sector Flow:
 11.23 3.16 1176 1.5 0.0 2.5 0.0
 Flow Due to Lockages+: -NR-

S79:

Spillway and Sector Flow:
 3.27 1.62 3393 0.0 2.0 2.0 3.0 2.0 2.0 2.0 0.0
 Flow Due to Lockages+: 6
 Percent of flow from S77 0%
 Chloride (ppm) 0

St. Lucie Canal (S308, S80)

S308:

Spillway and Sector Preferred Flow:
 15.32 13.94 0 0.0 0.0 0.0 0.0
 Flow Due to Lockages+: 2

S153: 18.64 13.70 46 0.0 0.5

S80:

Spillway and Sector Flow:
 14.00 0.66 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
 Flow Due to Lockages+: 15
 Percent of flow from S308 NA %

Steele Point Top Salinity (mg/ml) ****
 Steele Point Bottom Salinity (mg/ml) ****

Speedy Point Top Salinity (mg/ml) ****
 Speedy Point Bottom Salinity (mg/ml) ****

+ Flow Due to lockages is computed utilizing average daily headwater and tailwater along with total number of lockages for the day to calculate a volume which is then converted to an average discharge in cfs.

++ Preferred flow is determined from either the spillway discharge or the below flow meter daily

Daily Precipitation Totals	1-Day (inches)	3-Day (inches)	7-Day (inches)	----- Wind -----	
				Direction (Deg)	Speed (mph)
S133 Pump Station:	-NR-	0.00	0.00		
S193:	-NR-	0.00	0.00	-NR-	-NR-
Okeechobee Field Station:	-NR-	0.00	0.00		
S135 Pump Station:	-NR-	0.00	0.00		
S127 Pump Station:	-NR-	0.00	0.00		
S129 Pump Station:	-NR-	0.00	0.00		
S131 Pump Station:	-NR-	0.00	0.00		
S77:	-NR-	0.00	0.00	7	2
S78:	-NR-	0.00	0.00	77	1
S79:	-NR-	0.00	0.00	57	0
S4 Pump Station:	-NR-	0.00	0.00		
Clewiston Field Station:	-NR-	0.00	0.00		
S3 Pump Station:	-NR-	0.00	0.00		
S2 Pump Station:	-NR-	0.00	0.00		
S308:	-NR-	0.00	0.00	-NR-	-NR-
S80:	-NR-	0.00	0.00	167	1
Okeechobee Average (Sites S78, S79 and S80 not included)	-NR-	0.00	0.00		

Oke Nexrad Basin Avg	-NR-	0.00	0.00		

Okeechobee Lake Elevations 06 AUG 2023 15.30 Difference from 06AUG23
 06AUG23 -1 Day = 05 AUG 2023 15.29 -0.01

06AUG23	-2 Days =	04 AUG 2023	15.27	-0.03
06AUG23	-3 Days =	03 AUG 2023	15.25	-0.05
06AUG23	-4 Days =	02 AUG 2023	15.23	-0.07
06AUG23	-5 Days =	01 AUG 2023	15.18	-0.12
06AUG23	-6 Days =	31 JUL 2023	15.13	-0.17
06AUG23	-7 Days =	30 JUL 2023	15.11	-0.19
06AUG23	-30 Days =	07 JUL 2023	14.77	-0.53
06AUG23	-1 Year =	06 AUG 2022	12.92	-2.38
06AUG23	-2 Year =	06 AUG 2021	13.92	-1.38

Long Term Mean 30day Avearge ET for Lake Alfred (Inches) = -NR-

Lake Okeechobee Net Inflow (LONIN)

Average Flow over the previous 14 days				Avg-Daily Flow
06AUG23	Today =	06 AUG 2023	5175 MON	2168
06AUG23	-1 Day =	05 AUG 2023	5199 SUN	4338
06AUG23	-2 Days =	04 AUG 2023	4889 SAT	4514
06AUG23	-3 Days =	03 AUG 2023	4718 FRI	4672
06AUG23	-4 Days =	02 AUG 2023	4687 THU	11094
06AUG23	-5 Days =	01 AUG 2023	4194 WED	11108
06AUG23	-6 Days =	31 JUL 2023	3618 TUE	4584
06AUG23	-7 Days =	30 JUL 2023	3530 MON	4696
06AUG23	-8 Days =	29 JUL 2023	3413 SUN	13364
06AUG23	-9 Days =	28 JUL 2023	2307 SAT	4688
06AUG23	-10 Days =	27 JUL 2023	2010 FRI	4673
06AUG23	-11 Days =	26 JUL 2023	1629 THU	-1578
06AUG23	-12 Days =	25 JUL 2023	1950 WED	5500
06AUG23	-13 Days =	24 JUL 2023	1474 TUE	-1369

S65E

Average Flow over previous 14 days				Avg-Daily Flow
06AUG23	Today=	06 AUG 2023	1590 MON	2286
06AUG23	-1 Day =	05 AUG 2023	1551 SUN	2027
06AUG23	-2 Days =	04 AUG 2023	1533 SAT	2026
06AUG23	-3 Days =	03 AUG 2023	1531 FRI	1487
06AUG23	-4 Days =	02 AUG 2023	1575 THU	1459
06AUG23	-5 Days =	01 AUG 2023	1635 WED	1802
06AUG23	-6 Days =	31 JUL 2023	1660 TUE	1378
06AUG23	-7 Days =	30 JUL 2023	1717 MON	1333
06AUG23	-8 Days =	29 JUL 2023	1779 SUN	1428
06AUG23	-9 Days =	28 JUL 2023	1824 SAT	1351
06AUG23	-10 Days =	27 JUL 2023	1874 FRI	1129
06AUG23	-11 Days =	26 JUL 2023	1942 THU	1407
06AUG23	-12 Days =	25 JUL 2023	1986 WED	1556
06AUG23	-13 Days =	24 JUL 2023	2032 TUE	1594

S65EX1

Average Flow over previous 14 days				Avg-Daily Flow
06AUG23	Today=	06 AUG 2023	0 MON	0
06AUG23	-1 Day =	05 AUG 2023	0 SUN	0
06AUG23	-2 Days =	04 AUG 2023	0 SAT	0
06AUG23	-3 Days =	03 AUG 2023	0 FRI	0
06AUG23	-4 Days =	02 AUG 2023	0 THU	0
06AUG23	-5 Days =	01 AUG 2023	0 WED	0
06AUG23	-6 Days =	31 JUL 2023	0 TUE	0
06AUG23	-7 Days =	30 JUL 2023	0 MON	0
06AUG23	-8 Days =	29 JUL 2023	0 SUN	0
06AUG23	-9 Days =	28 JUL 2023	0 SAT	0
06AUG23	-10 Days =	27 JUL 2023	0 FRI	0
06AUG23	-11 Days =	26 JUL 2023	0 THU	0
06AUG23	-12 Days =	25 JUL 2023	0 WED	0
06AUG23	-13 Days =	24 JUL 2023	0 TUE	0

Lake Okeechobee Outlets Last 14 Days

DATE	S-77 Discharge (ALL DAY) (AC-FT)	Below S-77 Discharge (ALL-DAY) (AC-FT)	S-78 Discharge (ALL DAY) (AC-FT)	S-79 Discharge (ALL DAY) (AC-FT)
06 AUG 2023	7	1076	-NR-	6707
05 AUG 2023	8	780	2014	7829
04 AUG 2023	84	450	2237	8237
03 AUG 2023	8	250	2540	7670
02 AUG 2023	9	576	3601	7337
01 AUG 2023	7	1005	4159	8646
31 JUL 2023	82	768	2946	4877
30 JUL 2023	224	456	2895	5995
29 JUL 2023	219	548	2533	5695
28 JUL 2023	227	779	2325	3624
27 JUL 2023	168	395	2600	4799
26 JUL 2023	437	722	3220	6252
25 JUL 2023	1512	1625	3217	4571
24 JUL 2023	1489	1786	3243	5196

DATE	S-310 Discharge (ALL DAY) (AC-FT)	S-351 Discharge (ALL DAY) (AC-FT)	S-352 Discharge (ALL DAY) (AC-FT)	S-354 Discharge (ALL DAY) (AC-FT)	L8 Canal Pt Discharge (ALL DAY) (AC-FT)
06 AUG 2023	-58	0	0	0	-5
05 AUG 2023	22	0	0	0	-15
04 AUG 2023	-75	0	0	0	-2
03 AUG 2023	-14	157	0	0	6
02 AUG 2023	-36	308	0	195	8
01 AUG 2023	-29	0	0	0	-8
31 JUL 2023	6	0	0	0	0
30 JUL 2023	-3	0	0	0	1
29 JUL 2023	-45	0	0	0	-6
28 JUL 2023	-3	0	0	0	0
27 JUL 2023	-7	0	0	0	-4
26 JUL 2023	23	0	0	0	17
25 JUL 2023	-63	0	0	0	5
24 JUL 2023	-NR-	0	0	0	-12

DATE	S-308 Discharge (ALL DAY) (AC-FT)	Below S-308 Discharge (ALL-DAY) (AC-FT)	S-80 Discharge (ALL-DAY) (AC-FT)
06 AUG 2023	4	-NR-	30
05 AUG 2023	5	-NR-	438
04 AUG 2023	283	-NR-	18
03 AUG 2023	538	-NR-	21
02 AUG 2023	4	-NR-	0
01 AUG 2023	507	-NR-	45
31 JUL 2023	384	-NR-	12
30 JUL 2023	483	-NR-	23
29 JUL 2023	490	-NR-	62
28 JUL 2023	471	-NR-	34
27 JUL 2023	588	-NR-	34
26 JUL 2023	605	-NR-	-NR-
25 JUL 2023	1082	-NR-	-NR-
24 JUL 2023	4	-NR-	25

*** NOTE: Discharge (ALL DAY) is computed using Spillway, Sector Gate and Lockages Discharges from 0015 hrs to 2400 hrs.

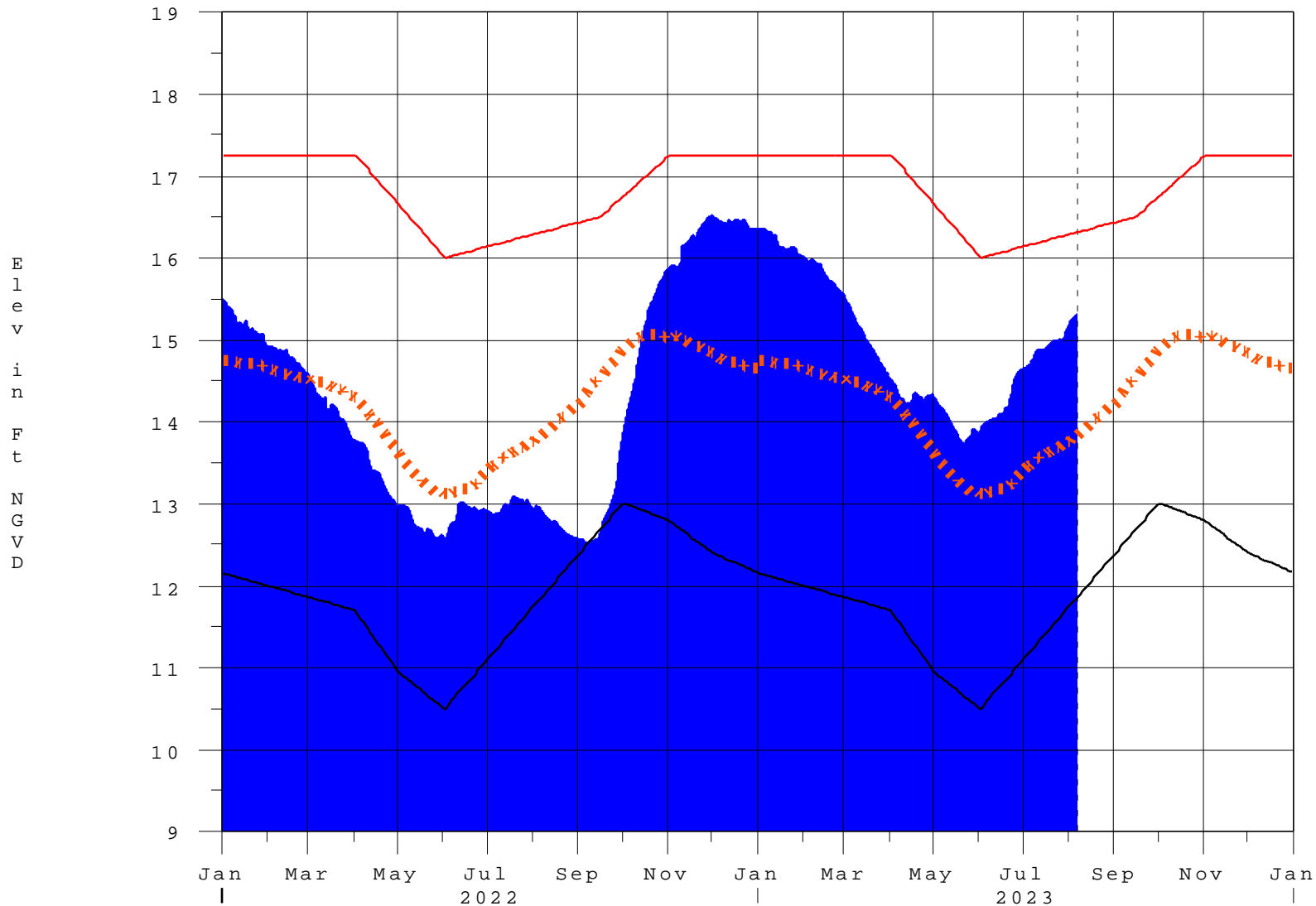
(I) - Flows preceded by "I" signify an instantaneous flow computed from the single value reported for the day

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- * On 11 May 1999, Lake Okeechobee Elevation was switched from Instantaneous 2400 value to an average-daily lake average.
 - On 14 Mar 2001, due to the isolation of various gages within the standard 10 stations, the average of the interior 4 station gages was used as the Lake Okeechobee Elevation.
 - On 05 November 2010, Lake Okeechobee Elevation was switched to a 9 gage mix of interior and edge gages to obtain a more reliable representation of the lake level.
 - On 09 May 2011, Lake Okeechobee Elevation was switched to a 8 gage mix of interior and edge gages to obtain a more reliable representation of the lake level due to isolation of S135 from low lake levels.
 - Today Lake Okeechobee elevation is determined from the 4 Int & 4 Edge stations
- ++ For more information see the Jacksonville District Navigation website at <http://www.saj.usace.army.mil/>
- \$ For information regarding Lake Okeechobee Service Area water restrictions please refer to www.sfwmd.gov

Report Generated 07AUG2023 @ 11:07 ** Preliminary Data - Subject to Revision **

Lake Okeechobee

07AUG23 11:00:23



- High Lake Management
- Okeechobee Avg Elev
- Average Elev [1965-2007]
- Water Shortage Management

Classification Tables

Supplemental Tables used in conjunction with the LORS2008 Release

Guidance Flow Charts

- [Class Limits for Tributary Hydrologic Conditions](#)

Table K-2 in the Lake Okeechobee Water Control Plan

- [6-15 Day Precipitation Outlook Categories](#)

Table ?? in the Lake Okeechobee Water Control Plan

- [Classification of Lake Okeechobee Net Inflow for Seasonal Outlook](#)

Table K-3 in the Lake Okeechobee Water Control Plan

- [Classification of Lake Okeechobee Net Inflow for Multi-Seasonal Outlook](#)

Table K-4 in the Lake Okeechobee Water Control Plan

[Back to Lake Okeechobee Operations Main Page](#)

[Back to U.S. Army Corps of Engineers Lake Okeechobee Operations Homepage](#)

Tributary Hydrologic Classification*	Palmer Index Class Limits	2-wk Mean L.O. Net Inflow Class Limits
Very Wet	3.0 or greater	Greater \geq 6000 cfs
Wet	1.5 to 2.99	2500 - 5999 cfs
Near Normal	-1.49 to 1.49	500 - 2499 cfs
Dry	-2.99 to -1.5	-5000 – 500 cfs
Very Dry	-3.0 or less	Less than -5000 cfs

* use the wettest of the two indicators

Classification of Lake Okeechobee Net Inflow Seasonal Outlook*

Lake Net Inflow Prediction [million acre-feet]	Equivalent Depth** [feet]	Lake Okeechobee Net Inflow Seasonal Outlook
> 0.93	> 2.0	Very Wet
0.71 to 0.93	1.51 to 2.0	Wet
0.35 to 0.70	0.75 to 1.5	Normal
< 0.35	< 0.75	Dry

****Volume-depth conversion based on average lake surface area of 467,000 acres**

Classification of Lake Okeechobee Net Inflow Multi-Seasonal Outlook*

Lake Net Inflow Prediction [million acre-feet]	Equivalent Depth** [feet]	Lake Okeechobee Net Inflow Multi-Seasonal Outlook
> 2.0	> 4.3	Very Wet
1.18 to 2.0	2.51 to 4.3	Wet
0.5 to 1.17	1.1 to 2.5	Normal
< 0.5	< 1.1	Dry

**Volume-depth conversion based on average lake surface area of 467,000 acres

6-15 Day Precipitation Outlook Categories*

6-15 Day Precipitation Outlook Categories	WSE Decision Tree Categories
Above Normal	Wet to Very Wet
Normal	Normal
Below Normal	Dry

* Corresponds to Table 7-6 in the Lake Okeechobee Water Control Plan